

Hessian Fly Resistant Wheat Varieties

Reduce wheat losses due to Hessian fly and increase yield

The Hessian Fly Resistant Wheat Varieties are specifically bred wheat plants with a natural ability to resist the Hessian fly, a destructive insect. Created through selective breeding, these varieties are developed to withstand larvae attacks, acting as a protective shield for the wheat.



Hessian fly adult (left) and larvae and damage to wheat (right)

Science for resilient livelihoods in dry areas

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This technology is **TAAT1 validated**.

 Scaling readiness: idea maturity: 8/9; level of use: 8/9

Cost: **35–43 USD** ROI: **\$\$\$**
 Seed needed per ha

79–100 % **5.5–7.1 tons/ha** **105 USD** IP
 Protection of plants from pests yield potential Additional production of forages per ha Copyright

Problem	Solution
The wheat production faces infestations by the Hessian fly and lead to substantial losses in many major wheat-producing areas, impacting crop yields.	<ul style="list-style-type: none"> Hessian Fly Resistant Wheat Varieties provides a natural barrier against infestations. These varieties significantly decrease damage caused by Hessian fly larvae, ensuring healthier crops.

Key points to design your business plan

This technology benefits seed multipliers, resellers, and users (farmers). Seed multipliers can reduce production losses and improve food security by acquiring and multiplying Hessian fly resistant wheat varieties. Resellers can meet the growing demand by providing proper storage facilities and safeguarding seeds against insects. For users, the technology offers natural resistance to the Hessian fly.

Gender assessment 4 Climate impact 7

Technology from

PropAS

Commodities

Wheat

Sustainable Development Goals

Categories

Production, Improved varieties, Insect resistance

Best used with

- [Integrated Management of Insects, Diseases and Weeds in Wheat >](#)

Tested/adopted in

■ Tested & adopted
■ Adopted
■ Tested

Where it can be used

This technology can be used in the colored agro-ecological zones.